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Attorneys for Defendants, Counterclaimants and Third-Party Plaintiff
ViaSat, Inc. and Paradise Datacom, LLC

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
OAKLAND DIVISION

APPLIED SIGNAL TECHNOLOGY, INC.

Plaintiff,

v.

EMERGING MARKETS
COMMUNICATIONS, INC.; EMC SATCOM
TECHNOLOGIES, INC.; PARADISE
DATACOM, LLC; and VIASAT, INC.,

Defendants.

AND RELATED CLAIMS.

Case No. 09-CV-02180-SBA

**DECLARATION OF DONALD W.
BECKER IN SUPPORT OF VIASAT,
INC. AND PARADISE DATACOM
LLC'S NOTICE OF MOTION AND
MOTION FOR ENTRY OF
PROTECTIVE ORDER**

Date: January 11, 2011

Time: 9:00 a.m.

Place: Courtroom 1, 4th Floor

Judge: Hon. Sandra B. Armstrong

1 I, Donald W. Becker, declare as follows:

2 1. I have been employed at ViaSat, Inc. since December 2006. Prior to my
3 employment with ViaSat, I consulted for ViaSat off and on for about twenty years prior to the
4 time I became an employee. My current title is Vice President, Advanced Development. I make
5 this declaration of my own personal knowledge, and if called upon as a witness would
6 competently testify to the facts set forth below.

7 2. I received a Bachelor's Degree in Applied Physics and Information Science from
8 UCSD in 1970. I received a Master's Degree in Information and Computer Science from UCSD
9 in 1972, and a PhD in Information and Computer Science from UCSD in 1973.

10 3. I have been working as a systems engineer in the satellite communications and
11 related fields since 1973.

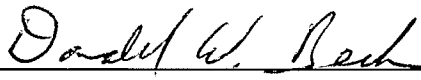
12 4. In 1997, I started working on a ViaSat technology called Paired-Carrier Multiple
13 Access, which is frequently called PCMA for short. PCMA technology allows a more efficient
14 use of satellite communication channels. ViaSat sells products that incorporate PCMA
15 technology, which is a proprietary and confidential ViaSat technology.

16 5. ViaSat products that implement PCMA are used in shared-channel satellite
17 applications. By "shared-channel satellite communications," I am referring to the transmission of
18 a signal from a local station to a satellite that reflects a frequency-translated version of the signal
19 back to the local station. The reflected signal is within the same frequency range as a signal
20 being relayed by the satellite to the local station from a remote station. The reflected signal
21 interferes with the relayed signal from the remote station, and PCMA is used to cancel this
22 interference so the local station can receive the relayed signal.

23 6. PCMA technology can also be used in applications other than shared channel
24 satellite communications. For example, it can be used in shared-channel microwave
25 communications in which signals are not relayed by a satellite but rather by a microwave
26 transmitter on the Earth. PCMA can also be used in applications that do not involve shared-
27 channel communications, for example, where the reflected signal is not primarily within the
28 frequency range of the relayed signal but still interferes with the reception of the relayed signal

1 by the local station. The PCMA technology can be used in this application to cancel the
2 interference.

3
4 I declare under penalty of perjury under the laws of the United States that the foregoing is
5 true and correct and that this declaration was executed by me in Carlsbad, California, this 30th
6 day of September, 2010.

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8 
9 Donald W. Becker

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